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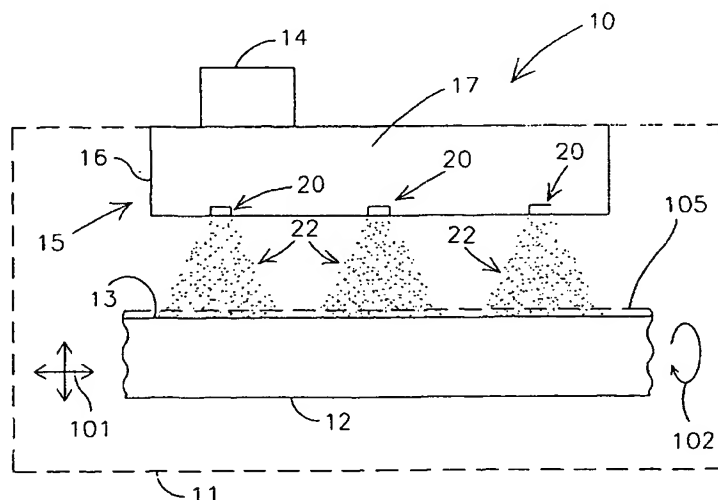
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(54) Title: COATING MEDICAL DEVICES



(57) Abstract: Methods and systems for coating at least a portion of a medical device (e.g., a stent structure) include providing a plurality of coating particles (e.g., monodisperse coating particles) in a defined volume. For example, the particles may be provided using one or more nozzle structures, wherein each nozzle structure includes at least one opening terminating at a dispensing end. The plurality of coating particles may be provided in the defined volume by dispensing a plurality of microdroplets having an electrical charge associated therewith from the dispensing ends of the one or more nozzle structures through use of a nonuniform electrical field between the dispensing ends and the medical device. Electrical charge is concentrated on the particle as the microdroplet evaporates. With a plurality of coating particles provided in the defined volume, such particles can be moved towards at least one surface of the medical device to form a coating thereon (e.g., using an electric field and/or a thermophoretic effect).

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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61L31/16 A61L29/16 A61L27/54 B05B5/025

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	<p>US 2003/143315 A1 (CHEN DA-REN ET AL)  31 July 2003 (2003-07-31)  page 1, paragraph 12 - page 2, paragraph 17  page 3, paragraph 20 - paragraph 21  claims 1-106</p> <p style="text-align: center;">--- -/--</p>	1-106



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 03/082363 A (SCIMED LIFE SYSTEMS INC) 9 October 2003 (2003-10-09)  page 2, line 26 -page 3, line 17 page 4, line 6 - line 25 page 5, line 10 -page 6, line 5 figures 1-8 claims 1-20	1,6, 8-12,14, 15,21, 22,25, 28,29, 33,41, 49,51, 52, 80-82, 87,89, 93,103, 105
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